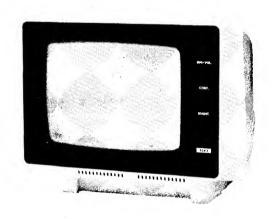
OPERATION MANUAL FOR DISPLAY MONITOR



MODEL KH-90

MODEL KH-90A

Thank you very much for your purchasing TOEI Monitor. Please read this operation manual for your correct operation defore switch-on.

- * I. C. & Transisterized and reliable design can make free Toei Monitors from troubles, and a stabilization of the circuit contributes to make more stable and clear Video-Screen even in the case that variation of power supply-voltage and ambient temperature would occure.
- * Thoughtful consideration is also given on making easy operation on Model KH-9Ó Series. Vertical IO gradient on front panel keeps operators

also considered for easy operation. KH-90 Series are employing Green Display CRT which can protect operators' eyes from fatigue of long time-

easy view on the screen and positions of knobs are

The design is put a importance on users standpoint of operation.

operation, and from reflection of outside light.

- * Video input connectors are set up in the rear panel for further giving play to motive power. Video output connectors make KH-90 Monitors poss
 - ible for bridge-operation which make users possible to see same screen of several Monitors simultaneously.
- * As main circuit is contained in a piece of P. C. Board, and is connected with connectors, maintenance and technical checking are easy to be done.

Picture Tube: 9", 90°, P31, Non-Glare

Power Supply:

AC100, 117, 220, or 240V, 32W

Input Impedance:

High Impedance or 75 Ohm changeable by switch

Input Signal:

Composite-Video Signal I. 0~2. OVp-p

Scanning Frequency:

Horizontal 15. 75KHz \pm 500Hz

Vertical 50/60Hz

Video Bandwidth:

20MHz and more (+Idb -3db)

Numbers of Characters:

2,000 Characters (80 \times 25 lines)

Deflection Tolerance:

Horizontal 7% Vertical 5%.

Size of Display:

about I50mm(W) × I08mm(H)

Audio-Input:

O. I Vp-p (KH-90A only)

Audio-output:

0.5W (KH-90A only)

Ambient Condion:

 -10° C \sim $+45^{\circ}$ C (Temperature)

20%~80% (Humidity)

Connectors:

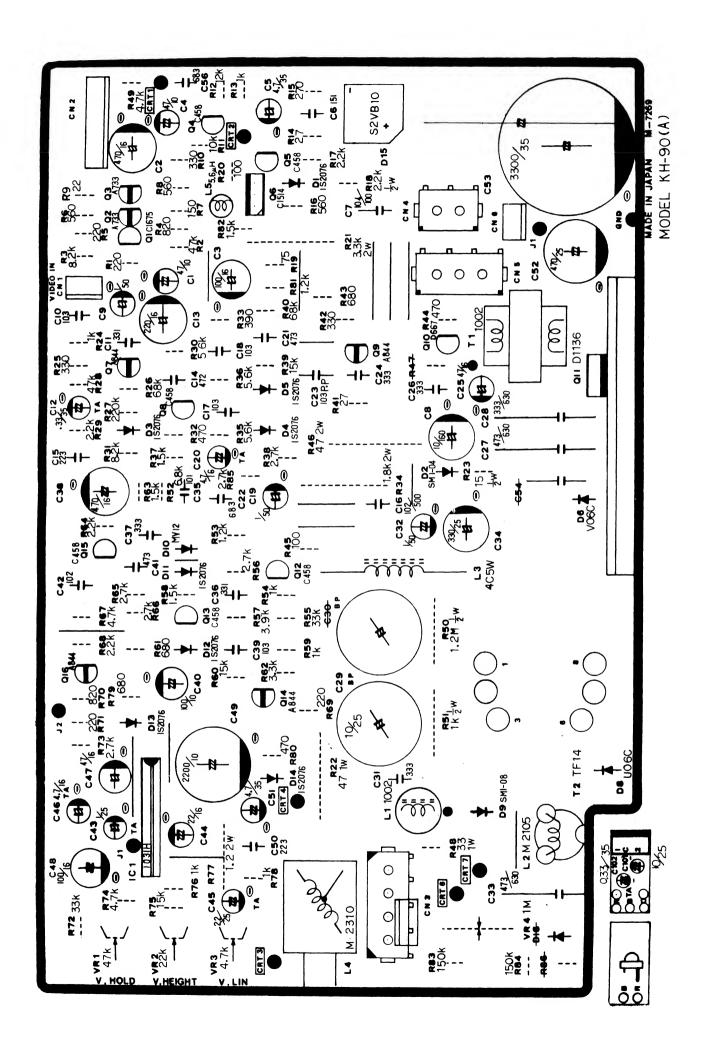
Pinjack \times 4 pcs.

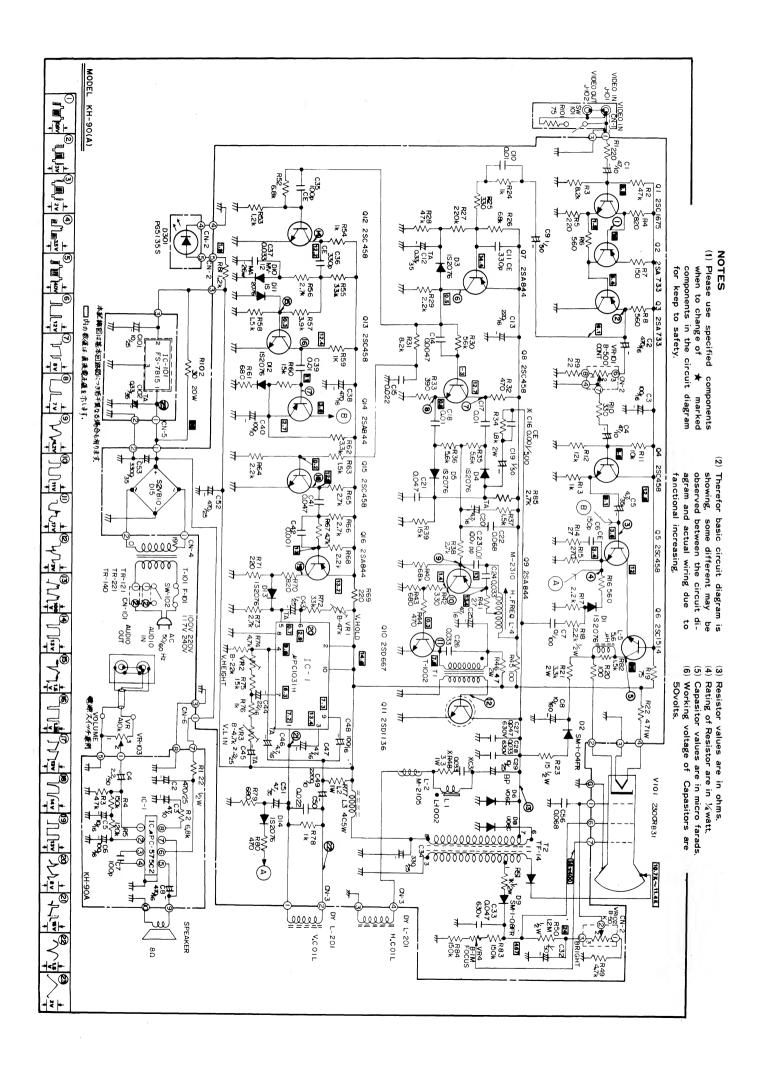
Size External:

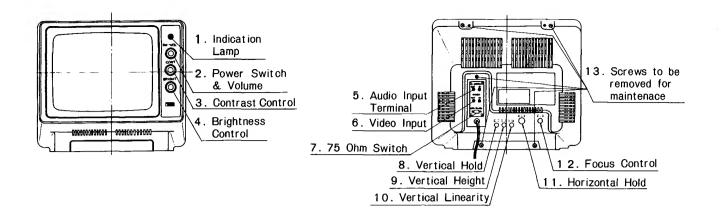
 $266mm(W) \times 231mm(H) \times 275mm(D)$

Weight:

4.5Kg net







1. Indication Lamp:

Green Lamp indicates switch-on when a switch is turn on clockwise.

2. Power Supply Switch:

- (1) For Model KH-90: Switch-on when a switch is turn on clockwise and Switch-off when a switch is turn on counter-clockwise.
- (2) For Model KH-90A: Switch-on of Power Supply and Volume when a switch is turn on clockwise and sound-volume become further great by turning the knob on clockwise.
- 3. Contrast Control:

When the picture contrast is too weak or too strong, adjust "CONTRAST" Control.

4. Brightness Control:

Brightness becomes light when the Control-Knob is turn on clockwise, and becomes dark when the Control-Knob is turn on counter-clockwise.

5. Audio Input Terminal.:

This is Terminal for connecting Audio-Signal, and the left Terminal is for Bridge-Connection.

6. Video Input Terminal:

This is Terminal for connecting Video Signal, and the left Termination is for Bridge-Connection.

7. 75 Ohm Termination Control Switch:

Switch-on when Video Output Impedance of epuipments connected is 75 Ohm and lower, and Switch-off when the Video Output Impedance is higher than 75 Ohm.

8. Vertical Hold:

When the picture is overlapped or rolling up or dowh, adjust V. HOLD Control until the picture becomes stable with minus screw driver.

9. Vertical Height Control (adjusted)

Turn on clockwise when vertical amplitude is small and turn on counter-clockwise when vertical amplitude is great.

10. Vertical Linearity (adjusted):

When the pattern is distorted at the top or bottom portion, adjust V. LINEAR Control.

11. Horizontal Hold Control:

When the picture is off set, or stpipes and bars appear, adjust H. HOLD Control.

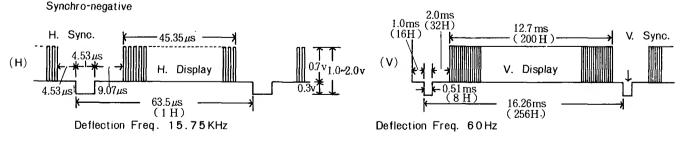
12. Focus Contorol:

When the picture is blurred or out of Focus, adjust FOCUS Control.

13. Maintenace and Technical Checking:

Rear-cover can be removed when 5 pcs. of screw and nuts are removed.

Recommended Signal and Timing Chart



Attention:

- Please pay your attention when anothor signal excepting for recommended signal is input, there are cases that normal Video Display does not appear.
- * There occures case that when same characters would be displayed for long hours of time, burned marks would be left on the screen of the CRT.

 Make Contrast Control and/or Brightness down as lower as possible.